

WE SIMPLY SOUND BETTER

PT 3 series II

Preamplifier Tuner

Owner's Manual

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SAFETY PRECAUTIONS



PLEASE READ BEFORE INSTALLING

WARNING: to prevent fire or shock hazard, do not expose this unit to rain or moisture. Care should be taken to prevent objects or liquid from entering the enclosure. Never handle the power cord with wet hands.

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated “dangerous voltage” within the product’s enclosure that may constitute a risk of electric shock to you.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the unit.

Caution: To prevent the risk of electric shock, do not remove cover. No user-serviceable parts inside. *Refer servicing to qualified service personnel.*

If an outdoor antenna is connected to the antenna input, be sure it is grounded to provide some protection against voltage surges and built up static charges. Keep the outdoor antenna away from power lines.

Unplug the Preamplifier Tuner from the AC outlet when plugging in or unplugging cables, when left unused for an extended period of time, moving the Preamplifier Tuner, or when you suspect lightning in your area.

Prevent damage to the power cord. Do not bend, pull, place objects on, alter, etc. Replace the power cord if it becomes damaged. Always grasp the plug on the power cord when plugging in or unplugging the Preamplifier Tuner from the AC outlet.

Your system may produce sound levels capable of causing permanent hearing loss. Do not operate for extended periods of time at high volume levels.

Make sure the Preamplifier Tuner is placed on a level surface.

Protect the Preamplifier Tuner from impact. (Do not drop it!!!)

The Preamplifier Tuner is equipped with raised feet to provide ventilation, reduce acoustic feedback, and provide protection against scratching the surface the unit is resting on. We advise against removing or altering feet.

Do not stack anything on top of the Preamplifier Tuner (amplifier, source, etc.) Leave a minimum of 3” clearance from the top of the Preamplifier Tuner to the next shelf (or component).

The Preamplifier Tuner should be located away from heat sources such as heaters or amplifiers.

Do not perform any internal modifications to the Preamplifier Tuner.

Always connect the Preamplifier Tuner’s power cord to an unswitched AC outlet for normal operation.

If young children are present, adult supervision should be provided until the children are capable of following all rules for safe operation.

Do not plug the Preamplifier Tuner’s power cord into an outlet with an unreasonable number of other devices. Be careful if using extension cords and ensure the total power used by all devices does not exceed the power rating (watts/amperes) of the extension cord. Excessive loads may cause the insulation on the cord to heat and possibly melt.

Mistaking **CONTROL OUTPUT** or **IR INPUT** connectors for audio inputs or outputs may damage your Preamplifier Tuner or other components.

Damage can occur to your speakers if the power rating of each individual driver is exceeded by the power amplifiers connected to the Preamplifier Tuner. Ensure that all the drivers in your system are capable of handling not only the average power being delivered by the power amplifier, but also the peak power that is likely to be generated during strong passages. If you are unsure of your speaker power rating, contact the speaker manufacturer or the dealer where you purchased them.

The Preamplifier Tuner should be serviced by qualified personnel when:

The Preamplifier Tuner is not functioning properly.

The Preamplifier Tuner was exposed to rain or other type of moisture.

The Preamplifier Tuner was dropped, or the chassis is damaged.

FEATURES

Your new Preamplifier Tuner is a versatile audio control center. The Preamplifier Tuner is designed to sound sensational and be an attractive, easy-to-use addition to your audio system. Although you already have a good idea of your Preamplifier Tuner's features, we would like to take a moment to point out certain highlights.

Remote Control - easy control of your B&K Preamplifier Tuner.

Front Panel Operation - nearly all functions can be controlled directly from the Preamplifier Tuner.

Presets - 40 preset memories allow instant recall of all user settings.

Loudness - may be used to add clarity to the audio signal for low to moderate listening levels.

Bass - may be used to adjust **room equalization**

Treble - may be used to adjust **room equalization**

Customized input and Preset names - assign names to presets, inputs, or the turn on message.

Internal Digitally Synthesized AM/FM Stereo tuner - stores up to 40 AM or FM presets.

Analog inputs/outputs - six audio inputs and full range, high pass, low pass and mono preamplifier outputs.

Control Outputs - one 12 VDC @ 50 mA outputs for controlling external systems such as a projection screen or B & K amplifier.

IR inputs/outputs - one IR input and one IR output allows integrating the Preamplifier Tuner with an infrared repeater control system.

Gold Plated Connectors - better sound with minimum signal loss and degradation.

Upgradable - optional RS232 control will allow for enhanced system control and interface.

THE BASICS

The following is intended to familiarize users with common terms and applications of home audio equipment.

Amplifier - an amplifier takes the output of a preamp/preamplifier and increases its level to that necessary to drive a speaker. Your Preamplifier Tuner includes full-range, high-pass, low-pass and mono preamp/preamplifier outputs for connecting to external amplifiers and/or powered speakers.

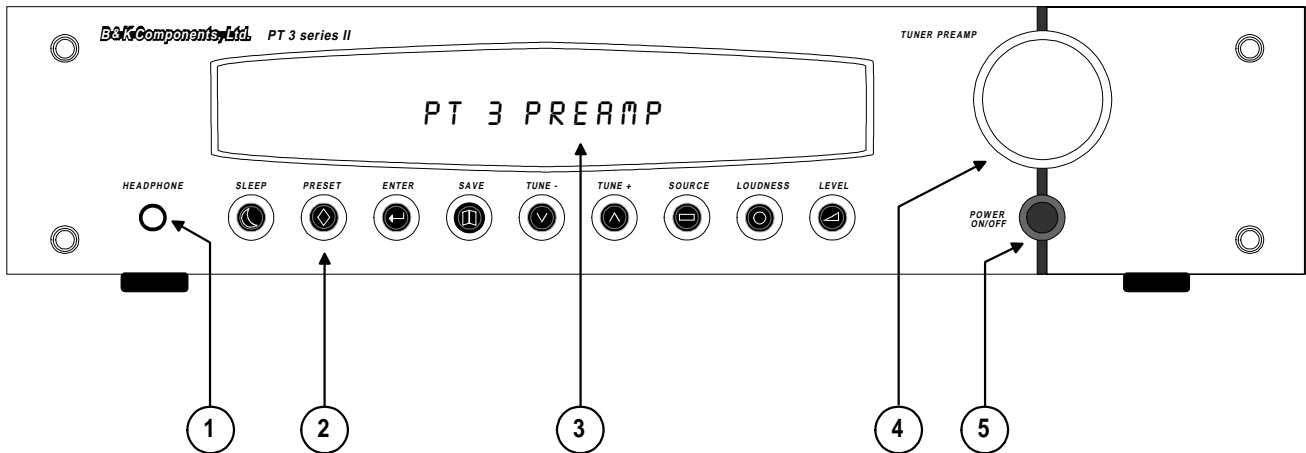
Preamplifier - a preamplifier typically includes the capability to select from a number of sources, adjust volume levels and route the signal to an amplifier. Optionally the preamplifier may include the capability to process the audio signal to adjust for room and listening taste preferences. Your Preamplifier Tuner is capable of adding or subtracting bass and treble to correct for any needed room equalization. A loudness circuit may be used to further shape the audio signal for increased clarity and intelligibility at low listening levels.

Sources - your Preamplifier Tuner can directly provide audio from its built-in AM/FM tuner. Typically you will want to connect a number of additional sources (CD, DVD player, etc.) to your Preamplifier Tuner. Your Preamplifier Tuner is designed to accommodate a wide range of audio sources.

Speakers and Bass Management - an audio system typically uses 2 speakers located front left and right. Additionally, a sub woofer may be used with good results anywhere in the room. Small speakers usually require a crossover to remove low frequency (bass) audio and pass this on to a sub woofer. Your Preamplifier Tuner includes an electronic crossover that adds the capability to work with large speakers (full range), or small speakers (high pass) and a sub woofer (low pass). Excellent results can also be achieved using large speakers and a sub woofer.










Zone - a zone is usually a room with speakers installed in it. Using Product ID's, your Preamplifier Tuner may be configured to be used in systems of up to 16 zones.

FRONT PANEL



1. Headphone Jack - Stereo headphones having a standard ¼ inch binaural plug can be connected to the headphone output. The Preamplifier Tuner must be on and in HEADPHONE Mode for proper headphone operation.

2. Front panel buttons

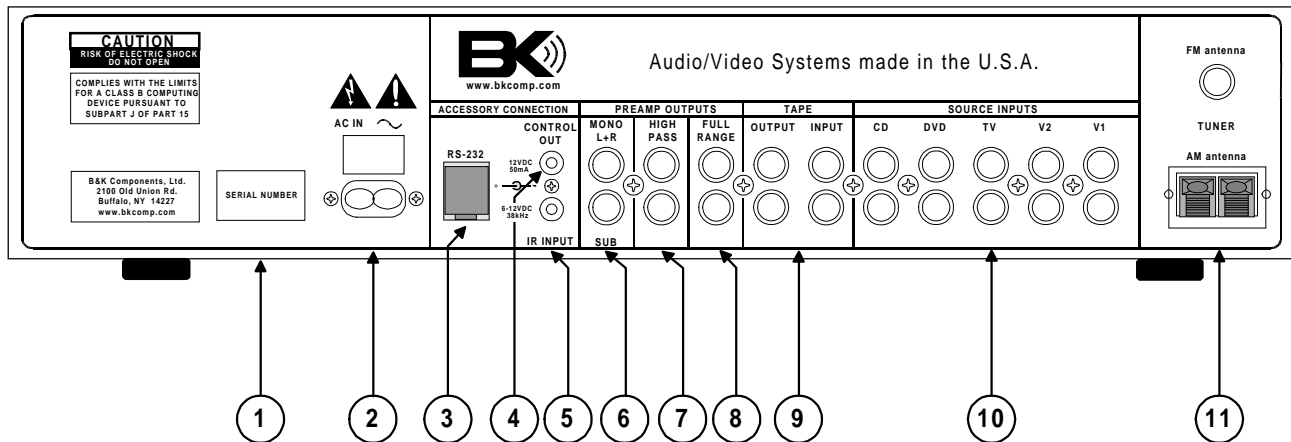
 SLEEP	Puts the Preamplifier Tuner in and out of standby mode.
 PRESET	Steps through audio presets for instant recall of setups. Pressing ENTER recalls the preset.
 ENTER	Confirm selection Pressing PRESET and ENTER simultaneously will enter the MENU state.
 SAVE	Save a preset. Press ENTER to accept.
 DOWN  UP	Allows tuning - (down), or tuning + (up) of the AM / FM tuner. While in MENU steps through menus, sources, or characters.
 SOURCE	Steps through the audio sources.
 LOUDNESS	Engages an audio intelligibility circuit for low level listening.
 LEVEL	Selects VOLUME, BALANCE, BASS, or TREBLE level to be adjusted via the rotational encoder.

3. Display - The Preamplifier Tuner display is a 16 character alphanumeric fluorescent display. Displays current status of the Preamplifier Tuner and any changes being performed.

4. Volume control - For controlling system volume. Turning the rotational encoder control clockwise increases the volume level, counterclockwise decreases the volume level. The volume knob is also used to change other Tuner and preamplifier settings. See OPERATION and MENU SYSTEM sections in this manual.

5. Main power switch - Removes all power to the Preamplifier Tuner. Normal operation of the Preamplifier Tuner requires the power switch to remain on. Use the Sleep button for daily on and off of the Preamplifier Tuner. It places the unit in standby mode that allows turning back on with the remote control. Turn the Preamplifier Tuner off with the main power switch when not using it for an extended period of time.

REAR PANEL

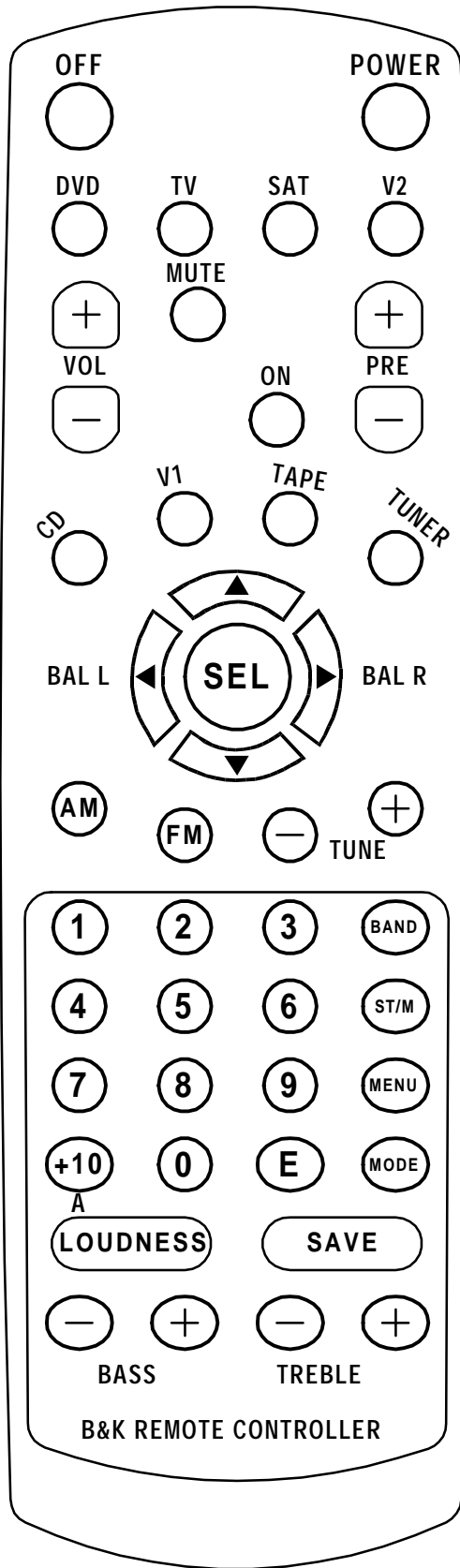


The Preamplifier Tuner's back panel is organized into groups of inputs and outputs as shown below. See back of this manual for an enlarged view.

1. **Serial number** - B&K Components, Ltd. serial number of your unit.
2. **AC input receptacle** - For attaching the supplied AC power cord to the Preamplifier Tuner.
3. **RS232 input** - Optional RS232 software is available to allow for enhanced system control and interface.
4. **Control out** - Output that allows you to remotely control external devices. (See "Making The Connection").
5. **IR in** - Accepts input from external IR receptors. Connect an IR repeater ("home run") to IR IN for controlling the Preamplifier Tuner. This method of control is useful when the front IR receptor is blocked (for example, by a cabinet door) or to control the Preamplifier Tuner from another room. This input is typically used in place of an emitter attached to the front panel.
6. **MONO L+R and SUB PREAMP outputs** - Variable level outputs for driving external power amplifiers or powered speakers. Mono is the summation of the L+R full range audio signals that is then processed by a low-pass filter to reduce audio above 80 Hz to source the SUB output.
7. **HIGH PASS outputs** - Variable level outputs for driving external power amplifiers or powered speakers. These outputs have been processed through a high pass filter to reduce audio below 80 Hz. Use these outputs for small speakers or in a sub woofer / satellite system. Note: these outputs are identical to the full range outputs with the addition of a 80 Hz 12 dB / Octave high-pass filter.
8. **FULL RANGE PREAMP outputs** - Variable level output to your external amplifiers.
9. **TAPE inputs and outputs** - Fixed level output for use with an audio recorder and a return for a tape monitor.
10. **Line inputs** - connections from your audio sources.
 - Red RCA jacks* - right analog audio
 - White RCA jacks* - left analog audio
11. **Antenna inputs** - Connections for the AM and FM antennas.

REMOTE CONTROL

Your Preamplifier Tuner includes an IR remote control.



MAKING THE CONNECTION

It's tempting to just plug in your new Preamplifier Tuner and have great sound pour out. Before you do that, take a few minutes to plan out how you want the Preamplifier Tuner to fit into your audio system. Ask yourself the following questions:

- What source components do I want to connect to my Preamplifier Tuner? (CD, DVD, etc.)
- What equipment will be receiving the audio? (Amplifier, Powered Speakers, etc.)

The answers to your questions determine how many cables you need to connect to the back of the Preamplifier Tuner. Good preplanning equals great sound. Keep these recommendations in mind:

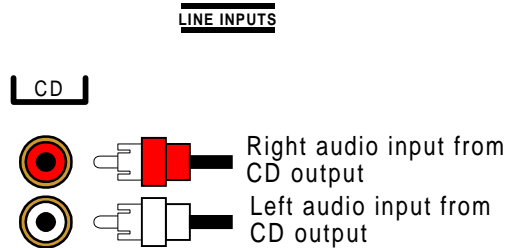
- List all components in your system and indicate which jacks of the Preamplifier Tuner each component will be connected to. Your Preamplifier Tuner has six sets of inputs. It is convenient to connect a DVD player to the input labeled DVD or a VCR to the input labeled V1 or TAPE, etc. However, your equipment may differ from the labeling on the back of your Preamplifier Tuner. In most cases you can connect any type of source to any input (see FREQUENTLY ASKED QUESTIONS). For example, if you have a satellite receiver you can connect it to V2. You can also reprogram the source name that will appear on your Preamplifier Tuner's front panel. (See SETUP - SOURCE NAMES)
- Also note the length of the cable for each component's connection and describe how it should be routed or draw your routing scheme below your list. You may want to label each cable with a name or number at both ends. Use high quality connections to maintain high quality audio.
- Think about the type and length of cable you need and obstacles in the cable's path (doorways, furniture, walkways, etc.). To decide which ones are right for you talk to your dealer about the various cable products that are available.
- For safety, keep all cables out of high traffic areas (hallways or doorways) and away from equipment that radiates power, including amplifiers, power cords, heaters, etc.
- If you might expand your audio system later, keep these ideas in mind as you plan current cable runs.
- To provide the best tuner reception, make sure the antenna is at least several feet away from the Preamplifier Tuner and any other equipment that may produce high frequency interference such as Personal computers, CD players, halogen lamps, etc.

Take a look at the back panel of the Preamplifier Tuner. You will notice that the RCA-type audio input and output connectors are identified by colors, red for right channel and white for the left channel audio.

AUDIO CONNECTIONS

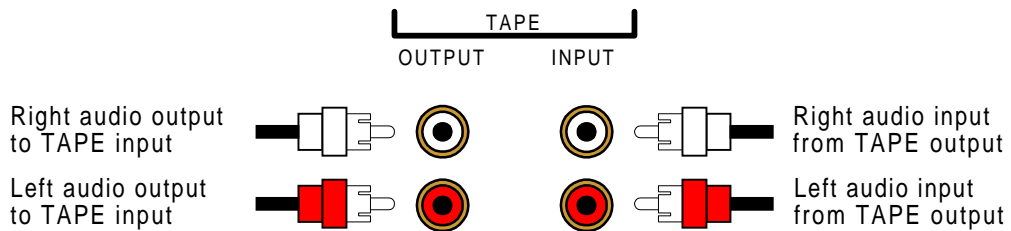
Connecting your analog sources to your Preamplifier Tuner

Audio source - connecting a CD player to the Preamplifier Tuner's analog inputs. Use the same instructions for connecting to other audio sources such as a DVD, television, satellite receiver, cable box, etc. Attach one end of the audio interconnect cable to the left audio output on the CD player, then attach the other end to the left (white) CD audio input on the Preamplifier Tuner. Repeat for the right (red) audio connection.



TAPE or audio recorder - connect a cassette deck or other recorder to TAPE.

Attach one end of the audio interconnect cable to the left audio output on the TAPE recorder, then attach the other end to the left (white) TAPE audio input on the Preamplifier Tuner. Repeat for the right (red) audio connection.



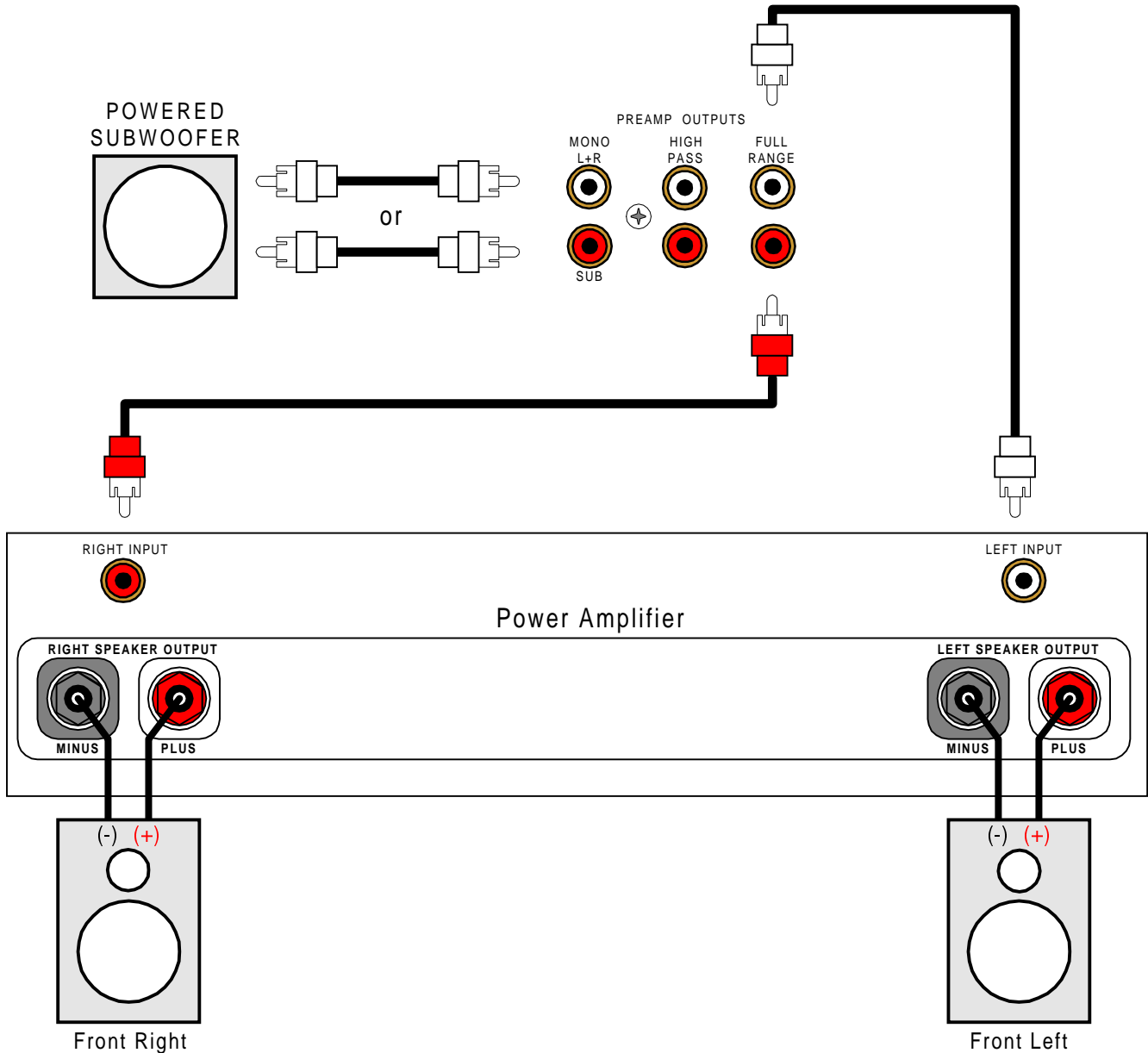
Attach one end of the audio interconnect cable to the left audio input on the TAPE recorder, then attach the other end to the left (white) TAPE audio output on the Preamplifier Tuner. Repeat for the right (red) audio connection.

USING FULL RANGE SPEAKERS

Connect the Preamplifier Tuner's outputs to your external amplifier(s) or powered speakers.

Shown below is a typical Preamplifier output setup for use with large speakers:

Note: the use of a sub woofer is optional.



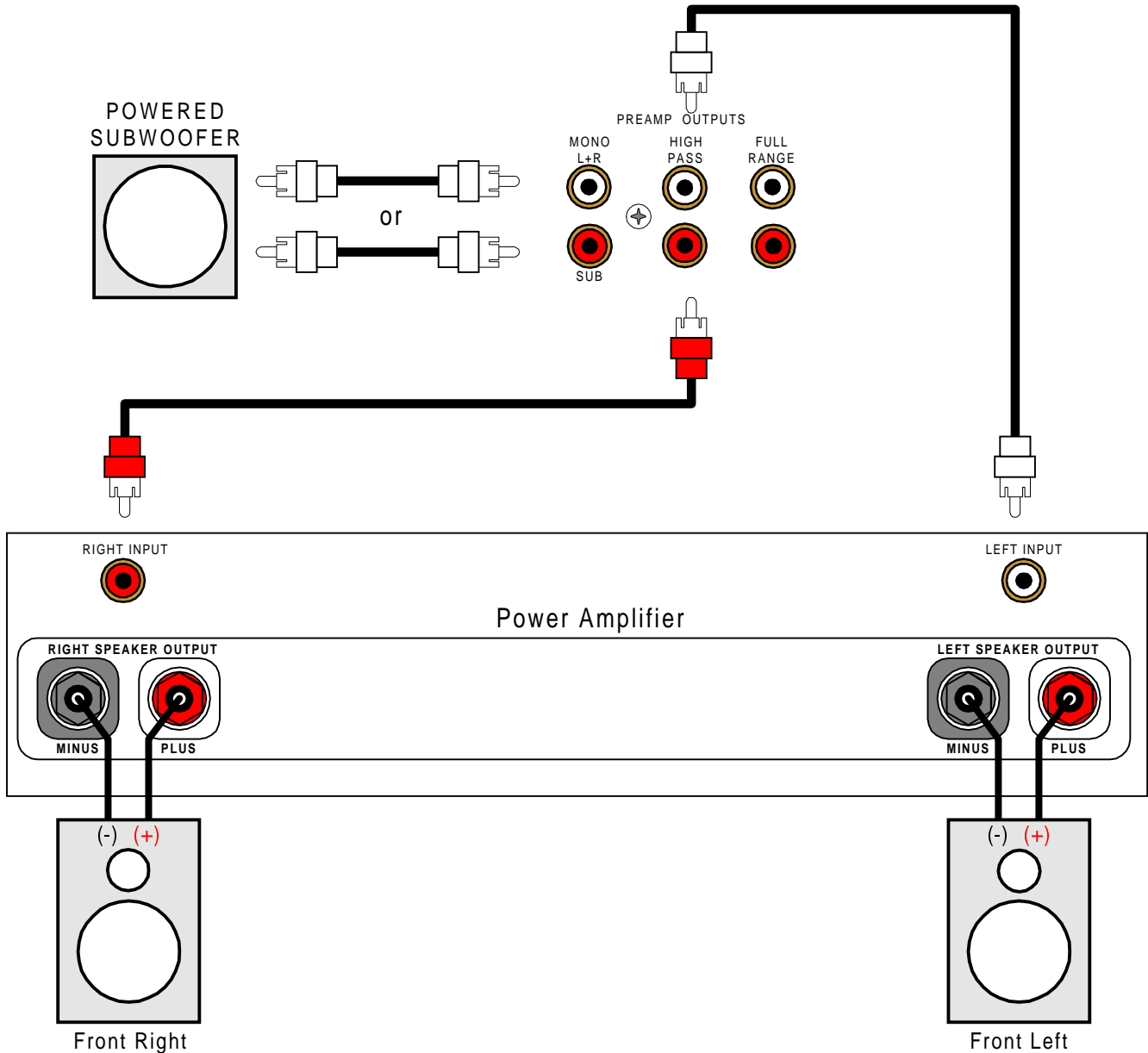
SUB output - Connect an RCA cable from the Preamplifier Tuner's SUB output. If your subwoofer does not contain its own amplifier you will need to purchase an external B&K or other power amplifier. Connect the Preamplifier Tuner's SUB output to the audio input of the external amplifier. Connect the external amplifier's speaker output to your subwoofer. If you prefer to use your subwoofer's internal crossover, connect to the Preamplifier Tuner's Mono output.

USING SMALL SPEAKERS

Connect the Preamplifier Tuner's outputs to your external amplifier(s) or powered speakers.

Shown below is a typical Preamplifier output setup for use with small speakers:

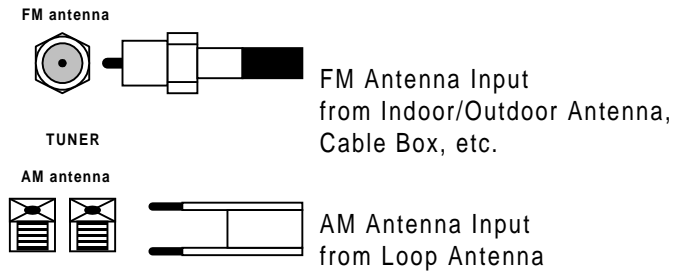
Note: the use of a subwoofer is not optional and is needed to reproduce low frequency audio material.



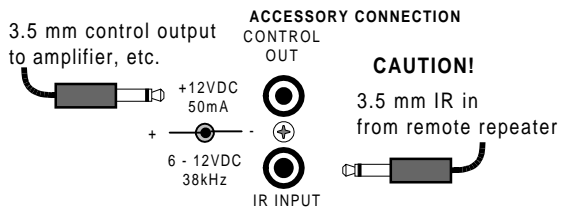
SUB output - Connect an RCA cable from the Preamplifier Tuner's SUB output. If your subwoofer does not contain its own amplifier you will need to purchase an external B&K or other power amplifier. Connect the Preamplifier Tuner's SUB output to the audio input of the external amplifier. Connect the external amplifier's speaker output to your subwoofer. If you prefer to use your subwoofer's internal crossover then connect the Preamplifier Tuner's full range outputs to the sub's input and connect your power amplifier or powered speaker's to the sub's high-pass output.

ANTENNA CONNECTIONS

The FM jack is a standard screw on F-type connector. The AM is a push type. Strip ¼ inch of insulation off your AM antenna wires and insert one wire end into each hole while holding the tabs down. Release the tabs to lock in the AM antenna wires.



CONTROL OUTPUT / IR INPUT



Control Output - This connection is to be used for controlling other equipment such as an external B&K Components, Ltd. amplifier, projection screen, etc. Connect your control cable to the Preamplifier Tuner using a mono 3.5 mm jack shown at left. The plug must be wired as tip (+) and the long barrel section (-).

The Control output is programmable for each source in your system (see “Advanced Setup”). However, the Preamplifier Tuner provides the following factory preprogrammed setup that should serve for most standard system applications.

Control - HEADPHONE - On (+12 VDC) when the unit is on and not in Headphone mode, Off when the unit is off or in Headphone Mode. This mode may be used for controlling external amplifiers or powered sub woofers in an audio zone.

Note - The control outputs can output a maximum of 50 mA. Check to see that the source you are connecting to the control out requires 50 mA or less current.

WARNING - Not all manufacturers adhere to the +12 VDC control specification. Check to see if your sources control inputs are +12 VDC compatible. Do not connect your Preamplifier Tuner’s control outputs to a source with control or remote inputs rated at +6 VDC or other voltage rating. Damage to your source may result.

IR Inputs - Your Preamplifier Tuner can be controlled by a directly connected IR repeater system in combination with or in place of the supplied remote control. Connect your IR input cable to the Preamplifier Tuner using a mono 3.5 mm jack shown above. The plug must be wired as tip (+) and the long barrel section (-). The input is standard 38 kHz modulated IR type with a voltage range of +6 to +12 VDC.

OPERATION

The following outlines the normal day-to-day operation of your Preamplifier Tuner from the supplied IR remote controller or directly from your Preamplifier Tuner's front panel.

POWER ON/OFF

The main power switch on the front panel of your Preamplifier Tuner must be on for the Preamplifier Tuner to operate. When this switch is off all power is removed from your Preamplifier Tuner. This prevents turning it back on with the remote control. You can use the main power switch for normal day to day operation but we suggest you use the sleep function instead so that the Preamplifier Tuner can be turned on and off from the remote. After turning on the main power you must wait approximately 10 seconds while your Preamplifier Tuner restores its internal memory and initializes various parameters. You may want to turn off the main power switch when your Preamplifier Tuner will be idle for extended periods of time or during periods of power line fluctuations. Your Preamplifier Tuner will not lose its memory while the main power switch is off.



PLEASE WAIT

From Remote	From Front Panel	Action
can't turn off main power from remote	POWER ON/OFF	main power on/off

SLEEP

Normally you will simply put your Preamplifier Tuner to sleep (standby) when not in use. Sleep mode keeps a bare minimum of functions running in order to allow remote control operation and fast start up. Note that the front panel SLEEP button is lit while your Preamplifier Tuner is asleep and is off when your Preamplifier Tuner is operating. The front panel alphanumeric display is off during sleep. Also note that the supplied IR remote's POWER button is a toggle to put your Preamplifier Tuner in and out of sleep. The remote control also has separate OFF and ON buttons.

OFF PLEASE WAIT B & K COMPONENTS
 MADE IN THE USA PT 3 PREAMP VERSION 2.01

	From Remote	From Front Panel	Action
1	ON or POWER	 SLEEP	bring Preamplifier Tuner out of standby
2	OFF or POWER	 SLEEP	put Preamplifier Tuner to sleep (standby)

ADJUSTING VOLUME

CD VOLUME -20

From Remote	From Front Panel	Action
VOL - or VOL +	VOLUME KNOB	adjust volume
MUTE	can't do from front panel	instant volume all the way down press MUTE again to restore

Note: The front panel VOLUME control is also used to control multiple functions and, therefore, cannot always control the LEVEL. The front panel display will indicate which LEVEL is currently being modified (VOLUME, BALANCE, BASS, or TREBLE). The VOLUME KNOB never controls volume in the menu system. During normal operation the VOLUME KNOB may switch to controlling other functions but will return to MASTER LEVEL after a few seconds. The remote's VOL - or VOL + will always change master volume level except in the SOURCE LEVEL menus.

CHOOSING A SOURCE

In general, the selected source will appear at the PREAMP outputs and the TAPE output.

CD -20 DB

From Remote	From Front Panel	Action
desired source	<input checked="" type="checkbox"/> (SOURCE) step to source	select desired source

TAPE MONITOR - If you have an analog three-head cassette or reel-to-reel analog tape recorder you may wish to use TAPE MONITOR, which allows you to hear exactly what is on the tape as you are recording.

TAPE -20 DB

From Remote	From Front Panel	Action
desired source	<input checked="" type="checkbox"/> (SOURCE) step to source	select desired source or TUNER source will appear on TAPE output
		wait a few seconds while Preamp Tuner analyzes selected source
TAPE	<input checked="" type="checkbox"/> (SOURCE) step quickly to TAPE	select TAPE monitor TAPE will appear at the preamp's output

HEADPHONE MODE

Headphone Mode allows you to operate your Preamp Tuner with the CONTROL OUT set to off. This feature allows your Preamp Tuner to turn off external amplifiers or powered sub woofers with compatible CONTROL inputs. Your Preamp Tuner has the capability to be set up to allow for other control out functions (see ADVANCED FEATURES).

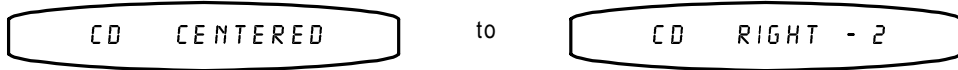
HEADPHONE OFF

HEADPHONE ON

	From Remote	From Front Panel	Action
1	MODE	Can't do directly from front panel refer to MENU operation	toggle headphone on/off

ADJUSTING BALANCE

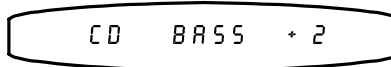
BAL (L) positions the source left by decreasing the right channel level. BAL (R) positions the source right by decreasing the left channel level.



From Remote	From Front Panel	Action
◀(BAL L) or ▶(BAL R)	<input checked="" type="checkbox"/> (LEVEL) step to BALANCE then use VOLUME KNOB	adjust balance left or right

ADJUSTING BASS

BASS +/- increase or decrease the low frequency content in 2 dB increments with a range of +/- 12 dB.



From Remote	From Front Panel	Action
BASS - or BASS +	<input checked="" type="checkbox"/> (LEVEL) step to BASS then use VOLUME KNOB	adjust bass up or down

ADJUSTING TREBLE

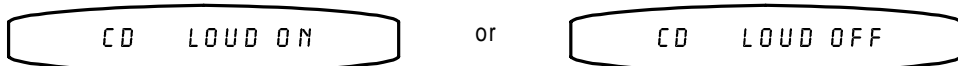
Treble +/- increase or decrease the high frequency content in 2 dB increments with a range of +/- 12 dB.



From Remote	From Front Panel	Action
TREBLE - or TREBLE +	<input checked="" type="checkbox"/> (LEVEL) step to TREBLE then use VOLUME KNOB	adjust treble up or down

LOUDNESS

Loudness may be used to further shape the audio signal for increased clarity and intelligibility at low listening levels.



From Remote	From Front Panel	Action
LOUDNESS	<input checked="" type="checkbox"/> (LOUDNESS)	toggle on or off

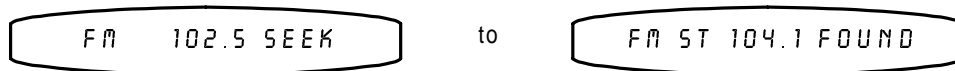
TUNER OPERATION

All TUNER operations require the Preamplifier Tuner's source be set to TUNER.

Manual Tuning - press TUNE + or TUNE - to tune the frequency UP or DOWN in single 10 kHz steps for AM or 200 kHz steps for FM. (9 kHz and 100 kHz steps for European version.)

Direct Frequency Entry Tuning - for a few seconds after performing any tuner operation (TUNER, BAND, AM, FM or TUNE+/-) you may directly enter a frequency from the remote control's numeric keypad.

Seek Tuning - Holding the remote TUNE +/- button will cause the tuner to SEEK (tune up or down automatically stopping on strong stations). Once the tuner has started seeking you can let go of the button. Once a station is found you must let go of the button before you can change frequencies again. In strong signal areas the tuner may stop one step above or below the true frequency. Unless you are sure of the station's frequency, check to see that the signal might be better one step above or below the frequency that SEEK has found. In weak signal areas the tuner may continue to seek all the way to the end of the band. To stop this simply press the opposite TUNE +/- button.

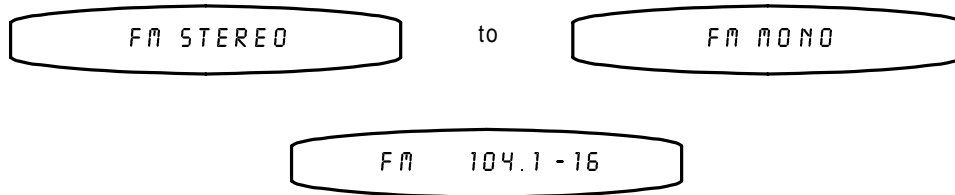


BAND - toggles between the AM and FM frequency bands.

AM - selects and allows tuning of the AM frequency band.

FM - selects and allows tuning of the FM frequency band.

ST/M - allows selecting of Stereo and Mono in the FM frequency band. Setting/Programming a channel to Stereo will play the channel in stereo if it is broadcast in stereo or in mono otherwise. Setting/Programming a channel to Mono will force the channel to mono regardless of the broadcast. Use mono to reduce background noise on weak channels.



	From Remote	From Front Panel	Action
1	TUNER	■ (SOURCE) step to source	select TUNER
2	BAND or AM or FM	■ (SOURCE) step to source	select AM or FM
3	TUNE+ or TUNE-	▲ (UP) or ▼ (DOWN) and then	manually tune up or down to desired frequency see TUNER OPERATION for DIRECT / SEEK / TUNE
4	ST/M	Can't do directly from front panel refer to MENU operation	set FM stereo/mono



PRESETS

Presets allow you to save your favorite settings and recall them instantly. Your Preamp Tuner can store forty presets (0..39). Most Preamp Tuner's only allow saving of tuner stations. With the presets you save not only the tuner station but also the volume, bass, treble, balance, loudness, and headphone mode. This allows you, for example, to save a music station with enhanced bass and a talk station with enhanced treble. You are not limited to 20 AM stations and 20 FM stations. You can save 1 AM station and 39 FM stations, 1 FM and 39 AM or anything in between. Also, presets are not limited to Tuner stations. You can save custom settings for any source. A convenient set of 10 presets come preprogrammed with your Preamp Tuner.

Recalling a Preset

1 CD -20 DB










RECALLING PRESET

	From Remote	From Front Panel	Action
1	number or +10 + number	 (PRESET) step to desired preset	review settings for recall
2	SEL or ENTER	 (ENTER)	recall preset

Saving a Preset

11 CD -15 DB

SAVING SETTINGS

	From Remote	From Front Panel	Action
1	make all settings you wish to save	make all settings you wish to save	prepare for saving preset
2	SAVE	 (SAVE)	activate preset save
1	number or +10 + number	 (PRESET) step to desired preset	Select preset number you wish to replace
3	 or   (BAL L) or  (BAL R)	 (TUNE +) or  (TUNE -) VOLUME KNOB	rename preset if desired
4	SEL or ENTER	 (ENTER)	save preset

MENU

For best results, perform the following set up procedure when you initially install your Preamplifier Tuner and anytime you change or add sources, speakers, etc. or when you rearrange your listening area

THE MENU SYSTEM

Setup of your Preamplifier Tuner will require you to navigate through the menu system via the front panel or remote. A complete guide to the menu system is included at the back of this manual. We recommend that you become familiar with your Preamplifier Tuner's menu guide. The following are general instructions for using the menu system.

MENU - If you are not already in the menu system, the MENU button on the remote controller will activate the menu system (or, simultaneously pressing PRESET and ENTER from the front panel). Once you are in the menu system, the MENU button will return you to the next higher level menu or, if you are already at the highest level, it will exit from the menu system.

UP/DOWN ARROWS - Once you are in the menu system, use the TUNE+ / TUNE- ARROWS to move to the desired menu selection.

SELECT (remote) or ENTER (remote or front panel) - Some menu selections cause another menu to be activated. Use the TUNE+ / TUNE- ARROWS to move to the desired menu line. Pressing SELECT or ENTER will activate the next menu.

LEFT/RIGHT ARROWS (remote) or VOLUME KNOB (front panel) - Some menu selections allow you to change one of the Preamplifier Tuner settings. Use the TUNE+ / TUNE- ARROWS to move to the desired menu line. Pressing the LEFT/RIGHT ARROWS will change the setting. There are no LEFT/RIGHT ARROWS on the front panel. While in the menu system, the VOLUME KNOB acts as the LEFT/RIGHT ARROWS. This means that you will not be able to adjust the volume from the front panel while in the menu system. The remote control volume will work in most menus.

TEXT EDITING - Some menu selections will require you to edit text. Use the TUNE+ / TUNE- ARROWS to change the current (blinking) character. Use the LEFT/RIGHT ARROWS (or VOLUME KNOB) to move to another character position.

HEADPHONE ON

The MAIN MENU Headphone selection provides for operating your Preamplifier Tuner's with the CONTROL OUT set to off. This feature allows your Preamplifier Tuner to turn off external amplifiers or powered sub woofers with compatible CONTROL inputs. Your Preamplifier Tuner has the capability to be set up to allow for other control out functions (see ADVANCED FEATURES).



	From Remote	From Front Panel	Action
1	MENU	⬠ (PRESET) and ⬇ (ENTER)	select headphone mode
2	◀(BAL L) or ▶(BAL R)	VOLUME KNOB	Turn headphone mode on/off
3	MENU	⬠ (PRESET) and ⬇ (ENTER)	exit from menu system

HELP

The HELP GUIDE summarizes the basic menu operations described herein. The guide will automatically scroll through each line.



	From Remote	From Front Panel	Action
1	MENU	⬠ (PRESET) and ⬇ (ENTER)	enter menu system
2	▲ or ▼ to HELP	▲ (TUNE +) or ▼ (TUNE -) to HELP	move to help
3	SEL or ENTER	⬇ (ENTER)	display help guide
4	MENU	⬠ (PRESET) and ⬇ (ENTER)	return to main menu
5	MENU	⬠ (PRESET) and ⬇ (ENTER)	exit menu system

PRODUCT INFO

The PRODUCT INFORMATION selection that provides basic information on your Preamplifier Tuner. The information will automatically scroll through each line.



	From Remote	From Front Panel	Action
1	MENU	⬠ (PRESET) and ⬇ (ENTER)	enter menu system
2	▲ or ▼ to HELP	▲ (TUNE +) or ▼ (TUNE -) to HELP	move to product info
3	SEL or ENTER	⬇ (ENTER)	display product info
4	MENU	⬠ (PRESET) and ⬇ (ENTER)	return to main menu
5	MENU	⬠ (PRESET) and ⬇ (ENTER)	exit menu system

SETUP

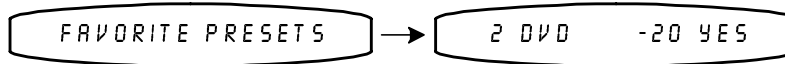
The MAIN MENU provides a SETUP selection that enables more advanced customization of your Preamp Tuner's operation.



	From Remote	From Front Panel	Action
1	MENU	⬠ (PRESET) and ⬇ (ENTER)	enter menu system
2	▲ or ▼	▲ (TUNE +) or ▼ (TUNE -)	move to setup
3	SEL or ENTER	⬇ (ENTER)	enter setup menu

Favorite Preset Setup

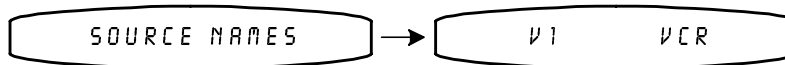
Favorite presets need only be setup after adding/changing presets or sources. This feature allows for skipping selected presets when pressing the remote Preset +/- buttons or front panel preset (+) button. When you save a preset it will be automatically added to the favorite preset list.



	From Remote	From Front Panel	Action
1	From setup menu: ▲ or ▼	From setup menu: ▲ (TUNE +) or ▼ (TUNE -)	move to favorite presets
2	SEL or ENTER	⬇ (ENTER)	enter favorite preset menu
3	▲ or ▼	▲ (TUNE +) or ▼ (TUNE -)	move to desired preset
4	◀(BAL L) or ▶(BAL R)	VOLUME KNOB	select no (skip) or yes
5	repeat 3-4	repeat 3-4	program additional presets
6	MENU	⬠ (PRESET) and ⬇ (ENTER)	return to setup menu

Source Names Setup

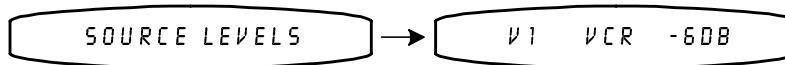
From the factory, your Preamplifier Tuner will display source names that match those printed on the rear of the Preamplifier Tuner and on the supplied remote. However, this menu allows you to change the displayed names to match the actual sources used. If you do not want to change the names then skip this step. Note that the tuner name cannot be changed.



	From Remote	From Front Panel	Action
1	From setup menu: ▲ or ▼	From setup menu: ▲ (TUNE +) or ▼ (TUNE -)	move to source names
2	SEL or ENTER	↵ (ENTER)	enter source names menu
3	desired source	▣ (SOURCE) step to source	select desired source for renaming
4	▲ or ▼	▲ (TUNE +) or ▼ (TUNE -)	change blinking character
5	◀(BAL L) or ▶(BAL R)	VOLUME KNOB	move to new character position
6	repeat 4-5	repeat 4-5	until all renaming complete
7	repeat 3-6	repeat 3-6	to rename additional sources
8	MENU	✦ (PRESET) and ↵ (ENTER)	return to setup menu

Source Levels Setup

This setup allows you to match the levels of your sources so that there are no large changes in volume as you change from one source to another. This is for your convenience only and need not be performed unless you wish to. You may use a SPL meter or your ear to adjust the levels. Note that the levels will depend not only on this setting but also on the source material being played back. You may wish to use a test disc. Note that the only settings permitted are 0 and -6dB.



	From Remote	From Front Panel	Action
1	From setup menu: ▲ or ▼	From setup menu: ▲ (TUNE +) or ▼ (TUNE -)	move to source levels
2	SEL or ENTER	↵ (ENTER)	enter source levels menu
3	desired source	▣ (SOURCE) step to source	select desired source for level setup
4	◀(BAL L) or ▶(BAL R)	VOLUME KNOB	set desired level
5	repeat 3-4	repeat 3-4	set additional source levels
6	MENU	✦ (PRESET) and ↵ (ENTER)	return to setup menu

Preset Operation Setup

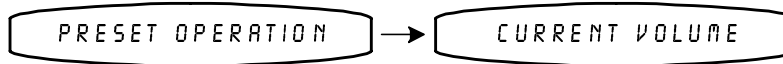
This menu allows you to configure various aspects of how presets function.



	From Remote	From Front Panel	Action
1	From setup menu: ▲ or ▼	From setup menu: ▲ (TUNE +) or ▼ (TUNE -)	move to preset operation
2	SEL or ENTER	↵ (ENTER)	enter preset operation menu

Preset Volume

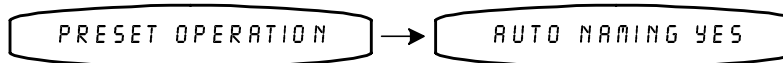
You can program presets to recall the volume level setting in effect when you saved the preset or to always use the current volume Setting.



	From Remote	From Front Panel	Action
1	From preset operation menu: ▲ or ▼	From preset operation menu: ▲ (TUNE +) or ▼ (TUNE -)	move to current or preset volume
2	◀(BAL L) or ▶(BAL R)	VOLUME KNOB	Select current or preset

Preset Naming

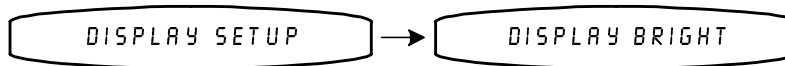
Your Preamplifier Tuner can automatically generate a preset name when saving presets based on the selected source. Alternatively, you can program it to retain the current preset name when saving presets. In either case you can still edit the (current or automatically generated) name before confirming the preset save.



	From Remote	From Front Panel	Action
1	From preset operation menu: ▲ or ▼	From preset operation menu: ▲ (TUNE +) or ▼ (TUNE -)	move to auto naming
2	◀(BAL L) or ▶(BAL R)	VOLUME KNOB	select auto naming yes or no
3	MENU	☆ (PRESET) and ↵ (ENTER)	return to setup menu

Display Setup

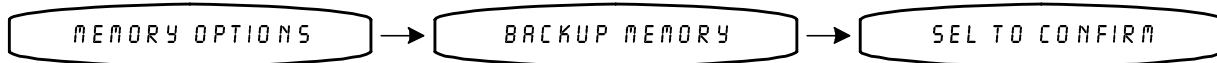
Set the intensity of the front panel's alphanumeric display.



	From Remote	From Front Panel	Action
1	From setup menu: ▲ or ▼	From setup menu: ▲ (TUNE +) or ▼ (TUNE -)	move to display setup
2	SEL or ENTER	↵ (ENTER)	enter display setup menu
3	◀(BAL L) or ▶(BAL R)	VOLUME KNOB	set display bright, medium, or dim
4	MENU	✦ (PRESET) and ↵ (ENTER)	return to setup menu

Memory Options

Your Preamplifier Tuner continually saves any settings you have made even if power is lost. However, you may wish to save a backup of your settings in case of inadvertent changes to them.



	From Remote	From Front Panel	Action
1	From setup menu: ▲ or ▼	From setup menu: ▲ (TUNE +) or ▼ (TUNE -)	move to memory options
2	SEL or ENTER	↵ (ENTER)	enter memory options menu
3	◀(BAL L) or ▶(BAL R)	VOLUME KNOB	select backup or restore memory
4	SEL or ENTER	↵ (ENTER)	activate selected memory operation
5	SEL or ENTER	↵ (ENTER)	confirm selected memory operation note: this takes a few seconds
6	MENU	✦ (PRESET) and ↵ (ENTER)	return to setup menu
7	MENU	✦ (PRESET) and ↵ (ENTER)	return to main menu
8	MENU	✦ (PRESET) and ↵ (ENTER)	return to normal operation

To restore backup settings perform the same procedure as described above but select restore instead of backup. If you have never made a backup, then performing a restore will call back the original factory settings.

FREQUENTLY ASKED QUESTIONS

My collection of equipment differs from the labels on the back of my Preamplifier Tuner, how can I hook them up?

Your Preamplifier Tuner provides 5 identical sets of inputs - V1, V2, TV, DVD and CD. It is convenient to connect components as labeled on the back of your Preamplifier Tuner, but since all the inputs are identical, you can connect any compatible source to any set of inputs. For example, you can connect a DAT player to V1 instead of a VCR. You can program your Preamplifier Tuner to display any 5 character name for any input (see SETUP - SOURCE NAMES).

The sixth input, TAPE, is primarily intended for analog recorders such as a cassette deck, DAT or Mini Disc. If you have a three-head cassette or reel-to-reel tape deck you will prefer the TAPE input since it allows a full tape monitor capability. Tape monitor allows you to listen to what is actually on the tape as you are recording it.

The Loudness control does not work at high volume settings. Is this normal?

Your Preamplifier Tuner's Loudness control is designed to automatically shape the audio signal for increased clarity and intelligibility during LOW VOLUME settings (below -15 dB). The control circuit is designed to gradually reduce its effect on the audio signal as the volume is increased. Loudness is completely removed as the level approaches 0 dB.

Can I connect a phonograph directly to my Preamplifier Tuner?

No, you will need a separate outboard phono preamplifier. The output of the phone preamp can then be connected to any analog input on your Preamplifier Tuner. There are several high-quality outboard phono preamps available such as the B&K Phono 10. Talk to the dealer where you purchased your Preamplifier Tuner.

ADVANCED SETUP FEATURES

WARNING - The following describes the advanced features of the Preamplifier Tuner. Since changing some of these functions may cause severe effects such as no sound or no remote control operation, we suggest you leave this menu disabled (hidden) for normal operation. If you are unsure of what you are changing **DO NOT** perform any advanced operations. These features may be activated by simultaneously pressing the SLEEP, DOWN, and UP buttons on the front panel of the Preamplifier Tuner. It will be assumed the user of these advanced features is already familiar with how to navigate and adjust parameters in the Preamplifier Tuner's MENU system. An Advanced Setup Flow Chart has been supplied at the end of this manual as a visual aid for the menu's navigation.

Note - if you have enabled the Advanced Visible option then you can return to this menu to hide the advanced visible selection by simultaneously pressing the SLEEP, TUNE-, and TUNE+ buttons and selecting Hidden.

MISCELLANEOUS SETUP

Configuration will allow you to set a maximum volume level and change remote control ID codes for use in a multi-zone application.

Max Level - max level allows you to set a maximum volume level. This is very useful if you are using speakers or amplifiers that can't handle the output level from your Preamplifier Tuner or if you simply wish to limit the volume that can be achieved using normal front panel or remote operation.

Max Level may be set from -74 dB to + 8 dB (default).

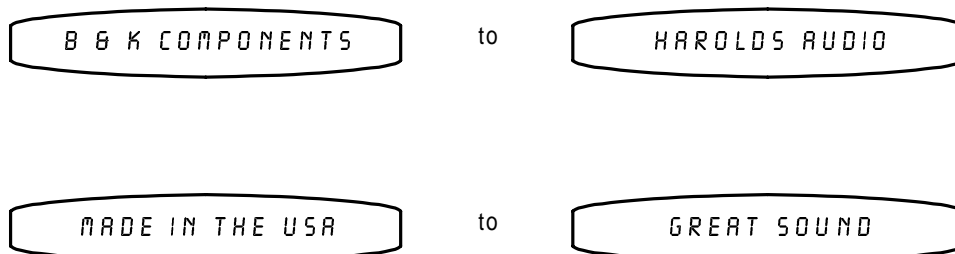
WARNING - If you set this level too low, the Preamplifier Tuner may appear broken (no sound).

Product ID - Each transmitted IR message from your remote control includes a Product ID code that is used to distinguish it from other devices. Product ID codes allow multiple B&K products to be controlled from the same IR remote control. From the factory, your Preamplifier Tuner is to use Product ID code 2. There are 16 valid Product ID's available for this product. Make sure you are in the ADVANCED SETTINGS menu.

WARNING - If you change the product ID code in the Preamplifier Tuner without having the capability to generate this new IR code, your Preamplifier Tuner will no longer have IR control capability. If this feature is to be implemented, we recommend our AV5.1 or AV7.1 preprogrammed & learning remote control. The AV5.1 / AV7.1 has the capability to generate messages using these 16 product ID codes.

POWER ON TITLES

When you turn your Preamplifier Tuner on it displays three lines of text on the front panel's alphanumeric display. You can change two of these lines of text to a personalized message.



CONTROL OUT SETUP

Your Preamplifier Tuner's control output allows you to control external devices such as power amplifiers, projection screens, etc. The control output can be programmed on/off depending on which source is selected.

Control Out - Control out can be programmed to be on or off for each source. For example you may wish to use the control out to turn on an external video projector whenever DVD is selected. Control out can also be set to HEADPHONE mode. HEADPHONE mode is intended to control external amplifiers to permit headphone listening without the need for manually turning off your external amplifiers. It is recommended that if HEADPHONE is set for one source then it should be set to HEADPHONE for all sources. Control out can also be set to REMOTE. In REMOTE mode your Preamplifier Tuner acts like a remote repeater - IR remote signals detected by your Preamplifier Tuner are repeated on the control out. It is recommended that if REMOTE is set for one source then it should be set to REMOTE for all sources.

The Control Out available settings are PHONES (Default), REMOTE, OFF, ON.

SECURITY OPTIONS

Security options allow you to hide the ADVANCED SETUP menu to prevent inadvertent changes to advanced system settings. This menu also allows you to lock various features available in your Preamplifier Tuner.

Advanced Visible - Options are VISIBLE and HIDDEN (default).

Memory Lock - Options are YES and NO (default). Locking memory will prevent changes to presets and system setup settings. Note: *Locking Memory will also remove SETUP as a selection from the Preamplifier Tuner's MENU. SLEEP, TUNE-, and TUNE+ buttons pressed simultaneously will always allow access to Advanced Setup editing.*

Front Lock - Options are YES and NO (default). Locking the front panel will prevent changing or adjusting the Preamplifier Tuner using the front panel buttons. This feature is most useful in custom applications where it is advantageous to disable user control with the front panel. **Note: SLEEP, TUNE-, and TUNE+ buttons pressed simultaneously will always disable the Front Panel Lock feature and allow for continued editing of the Advanced Setup features.**

IR Lock - Options are YES and NO (default). Locking out IR control will prevent changing or adjusting the Preamplifier Tuner using ANY IR remote control. This feature is most useful in custom applications where it is advantageous to disable user control with an IR controller. **Note: SLEEP, TUNE-, and TUNE+ buttons pressed simultaneously will always disable the IR Lock feature and allow for continued editing of the Advanced Setup features.**

After completing all of your advanced settings you may wish to backup the settings (not available if MEMORY LOCK is set to YES). Refer to Memory Backup in the Setup section of this manual.

FACTORY RESET

Should you ever need to completely reset the Preamplifier Tuner to the original factory settings, by pressing the front panel SLEEP, DOWN, and LEVEL buttons simultaneously. **The Preamplifier Tuner will perform a complete reset and erase all user programmed presets, menu settings, and any previously made memory backup.**

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
No sound, display will not light	<ol style="list-style-type: none"> 1. Power cord not plugged in. 2. Power off at AC source. 3. Power switch off. 4. AC power inlet fuse blown or faulty.* 	<ol style="list-style-type: none"> 1. Reconnect power cord. 2. Check power at plug. 3. Turn power switch on. 4. Check for shorts or overloading. Replace fuse.
No sound, display on.	<ol style="list-style-type: none"> 1. Preamplifier Tuner in mute 2. Volume control to minimum. 3. Wrong source selected. 4. Line stage to amp. cables loose or faulty. 5. Source to line stage cables loose or faulty. 	<ol style="list-style-type: none"> 1. Unmute Preamplifier Tuner. 2. Increase volume. 3. Select source. 4. Tighten, repair, or replace cable. 5. Tighten, repair, or replace cable.
Loud hum or buzz on one or more channels	<ol style="list-style-type: none"> 1. Poor ground connection in interconnect cables. 2. Poor ground in main AC supply. 3. Poor ground on cable box. 4. Cables running across back of TV. 	<ol style="list-style-type: none"> 1. Check all connectors and repair as necessary. 2. Check ground of outlet. Have it checked by qualified serviceman. 3. Check ground. 4. Reposition cables.
Remote will not operate unit.	<ol style="list-style-type: none"> 1. Batteries missing. 2. Batteries dead. 3. Batteries inserted wrong. 4. Remote signal blocked. 5. Lens requires cleaning. 6. IR Lock is enabled 	<ol style="list-style-type: none"> 1. Check for batteries inside remote. 2. Put in fresh batteries. 3. Follow diagram in battery compartment. 4. Clear path to front panel of unit. 5. Clean lens with a soft cloth. 6. Refer to <i>IR Lock</i> under <i>Security Options</i> in this manual
One or more channels sound bad	<ol style="list-style-type: none"> 1. It is possible that the Preamplifier Tuner needs to be reset (cold power boot). 	<ol style="list-style-type: none"> 1. Cycle the Preamplifier Tuner's front panel POWER switch to OFF then back to ON.

* **Note:** If the unit continues to blow power inlet fuses, have the unit checked by a qualified technician.

DO NOT USE A HIGHER RATED FUSE!, contact B&K customer service.

PREAMPLIFIER TUNER SPECIFICATIONS

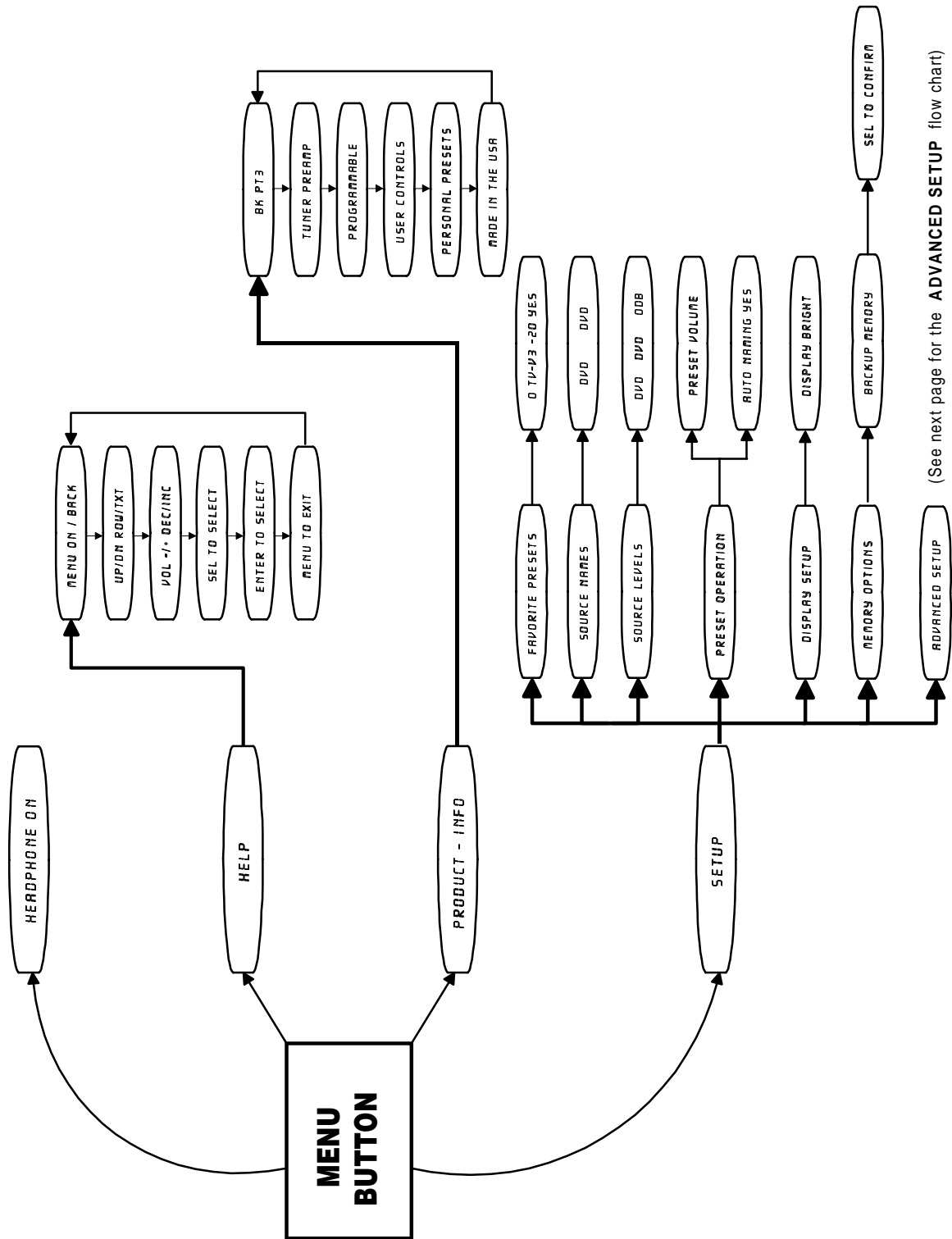
Preamplifier Specifications	Miscellaneous
Frequency Response: 5 Hz - 20 kHz , +0/0.5dB	Line voltage: 120/220/240 VAC
Input Sensitivity: 63 mV	Power consumption: 30 watts max
Maximum Output Level: 8 V rms	Replacement fuses: Line 0.5 Amp/250 Volt
Signal to Noise Ratio: 89 dB CCIR 2 k Weighted max level	Dimensions: 17"(w)x10"(d)x3.50"(h)
Input Impedance: 50 k Ohms	Weight: 10 pounds
Output Impedance: 221 Ohms	Warranty: 5 years preamplifier See Warranty page for complete explanation 1 year remote
Audio Analog Inputs 6	Upgrade: RS232 software
Audio Analog Outputs 4	
High Pass Crossover 80 Hz 12 dB per octave	
Low Pass Crossover 80 Hz 12 dB per octave	

Tuner Specifications	FM Section	Tuner Specifications	AM section
Frequency Range:	87.5 - 107.9 MHz	Frequency Range:	520 - 1670 kHz
Total Harmonic Distortion:	Less than 0.25%	Total Harmonic Distortion:	Less than 0.3%
Frequency Response	20 Hz - 15 kHz, +1/ -3 dB	IHF (Usable) Sensitivity:	28 dBf
Capture Ratio:	2 dB	Alternate Channel Selectivity:	30 dB
IHF (Usable) Sensitivity:	12 dBf	Antenna Input Impedance:	300 Ohms
Mono/Stereo Sensitivity:	15 / 35 dBf		
Alternate Channel Selectivity:	65 dB		
Signal to Noise Ratio:	70 dB, A Weighted		
Antenna Input Impedance:	75 Ohms		

Specifications subject to change without notice

MENU SYSTEM

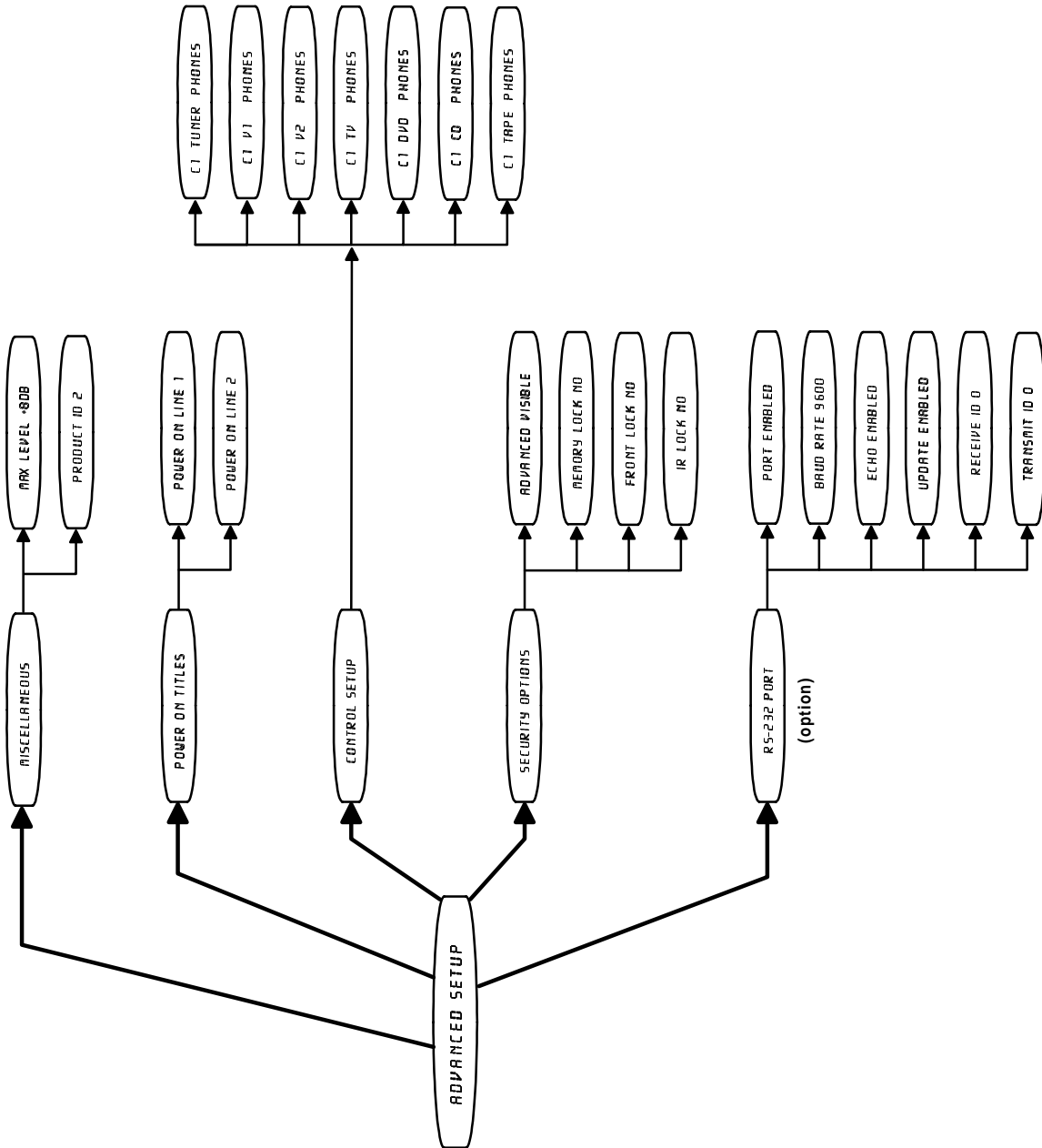
PT 3 MAIN MENU FLOW CHART



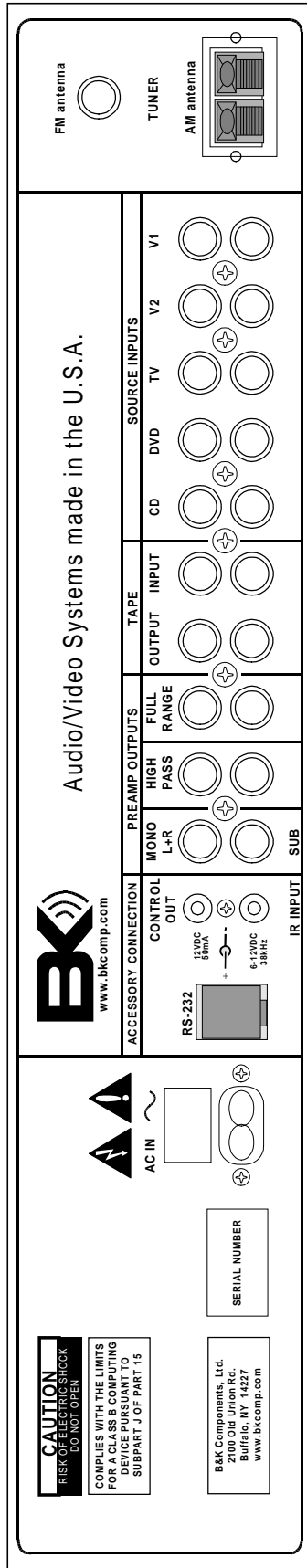
(See next page for the **ADVANCED SETUP** flow chart)

ADVANCED MENU SYSTEM

ADVANCED SETUP FLOW CHART



REAR PANEL ENLARGED VIEW



NOTES

LIMITED WARRANTY

B&K Components Ltd., referred to herein as B&K, warrants your B&K equipment against all defects in material and workmanship for a period of five years from the date of purchase. This warranty applies only to the original purchaser and only to equipment in normal residential use and service. Defective equipment must be returned to B&K, prepaid, accompanied by sufficient payment to cover the cost of return shipping and handling, and will be repaired or replaced at the discretion of B&K whose decision as to the method of reparation will be final.

This warranty shall not apply to any equipment which is found to have been improperly installed, incorrectly fused, misused, abused, or subjected to harmful elements, used in any way not in accordance with instructions supplied with the unit, or to have been modified, repaired or altered in any way without the expressed, written consent of B&K. This warranty does not apply to the cabinet, the remote controller, or appearance items such as the face plate, control buttons, or display lenses, nor does it cover any expenses incurred in shipping the unit to and from the manufacturer's service depot.

No warranty, implied or otherwise created by State law shall extend beyond the terms of this warranty and B&K shall not be liable for any incidental or consequential damage arising out of a defect in material or workmanship of the unit during the terms of this warranty or thereafter. Some States do not allow the exclusion or limitation of incidental or consequential damages and the foregoing exclusions may not apply to you.

This warranty gives you specific legal rights. You may also have other rights that vary from State to State.

No agent, representative, dealer or employee of B&K has the authority to increase or alter the obligations or terms of this warranty.

B&K Components Ltd.

Warranty on the Remote Control is 1 year parts and labor. Customer is responsible for shipping to and from the factory

RETURNING EQUIPMENT

No equipment may be returned to B&K Components Ltd. without a RETURN AUTHORIZATION. Should you find it necessary to return equipment to B&K, for any reason, a RETURN AUTHORIZATION (RA) number must be issued by B&K with respect to the equipment being returned. You may request an RA number by calling B&K at one of the below listed telephone numbers.

Customer Service	800-543-4242
Information	716-656-0026.

We will need the following information to issue your RA number. Before you call please have the following.

1. Your name, address, and phone number.
2. The model and serial number of the equipment to be returned.
3. A description of the problem.
4. Your sales receipt.

Your call will be referred to a Technical Service Representative who will work with you to resolve the problem. If it is determined that the unit must be returned for repair, an RA number will be issued and the unit should be shipped to:

B&K Components Ltd.
2100 Old Union Road.
Buffalo, New York 14227

LIST YOUR UNIT INFORMATION HERE

MODEL # PT 3

SERIAL # _____

DEALER NAME _____

DEALER PHONE # _____

SALES PERSON _____

DATE PURCHASED _____